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PN - EP0029484 A 19810603

PD - 1981-06-03

PR - CH19790010375 19791121

OPD - 1979-11-21

TI - Locking and extraction member.

AB - 1. A one-piece locking- and lifting element (30) disposed in swivelling fashion on a printed circuit board (10), for the releasable locking of the printed circuit board to an assembly frame (20), comprising a grip (31), two limbs (39, 39') connected to one another by a middle portion (38) and arranged at a distance from one another, which limbs engage in forked manner over the printed circuit board (10) that is to be locked in the assembly frame and are connected to the printed circuit board by a pin (40) penetrating the printed circuit board and the limbs, characterised in that there is provided at a distance from the grip (31) on the middle portion (38) a stop cam (41) and between the grip and the stop cam a stop tongue (35) running substantially parallel to the middle portion and moulded on the grip, and that in the locked state the stop cam abuts against the assembly frame (20) in the lifting direction (11) and the stop tongue abuts it in the transverse direction (12).

IN - LUZZI JACHENMUTHER FRANZ

PA - CONTRAVES AG (CH)

EC - H05K7/14B2E

IC - H01R23/70

CT - US4083616 A []; FR2385239 A []; US3451034 A [];
FR2409611 A []; DE2801427 A []; DE1465210 A []

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TI - Retaining device for circuit board - has springy locking projection engaging lip of support frame

PR - CH19790010375 19791121

PN - EP0029484 A 19810603 DW198124 Ger 000pp

- EP0029484 B 19821117 DW198247 Ger 000pp

- DE3061107G G 19821223 DW198301 000pp

PA - (COTV) CONTRAVES AG

IC - H01R23/70

IN - LUZZI J; MUTHER F

AB - EP--29484 The device (30) is pivoted to the circuit board (10) and locks the board to a support frame (20). The device consists of a grip (31), two spaced webs (39,39) linked by centre piece (38) and

a bolt (40) passing through the webs and the circuit board. (The webs fit each side of the circuit board). A locking cam (41) is located in the centre piece at a distance from the grip.

- A locking projection (35) is located between the grip and the locking cam and is parallel to the centre piece. In the locked state, the locking cam rests against the support frame in the removal direction (11) and the locking projection rests against the support frame in the transverse direction (12)..
- The circuit board can be removed without dismantling any parts. Each circuit board can be locked individually into the frame. The retaining device is resistant to impact and vibration.

EPAB - EP--29484 The device (30) is pivoted to the circuit board (10) and locks the board to a support frame (20). The device consists of a grip (31), two spaced webs (39,39) linked by centre piece (38) and a bolt (40) passing through the webs and the circuit board. (The webs fit each side of the circuit board). A locking cam (41) is located in the centre piece at a distance from the grip.

- A locking projection (35) is located between the grip and the locking cam and is parallel to the centre piece. In the locked state, the locking cam rests against the support frame in the removal direction (11) and the locking projection rests against the support frame in the transverse direction (12)..
- The circuit board can be removed without dismantling any parts. Each circuit board can be locked individually into the frame. The retaining device is resistant to impact and vibration.

OPD - 1979-11-21

CT -

DE1465210;DE2801427;FR2385239;FR2409611;US3451034;US4083616

DS - AT BE CH DE FR GB IT LI NL SE

AN - 1981-F4243D [24]